

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730580

Luminaire Tested: **HBLED-LD5-18HE-W-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18353.0 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

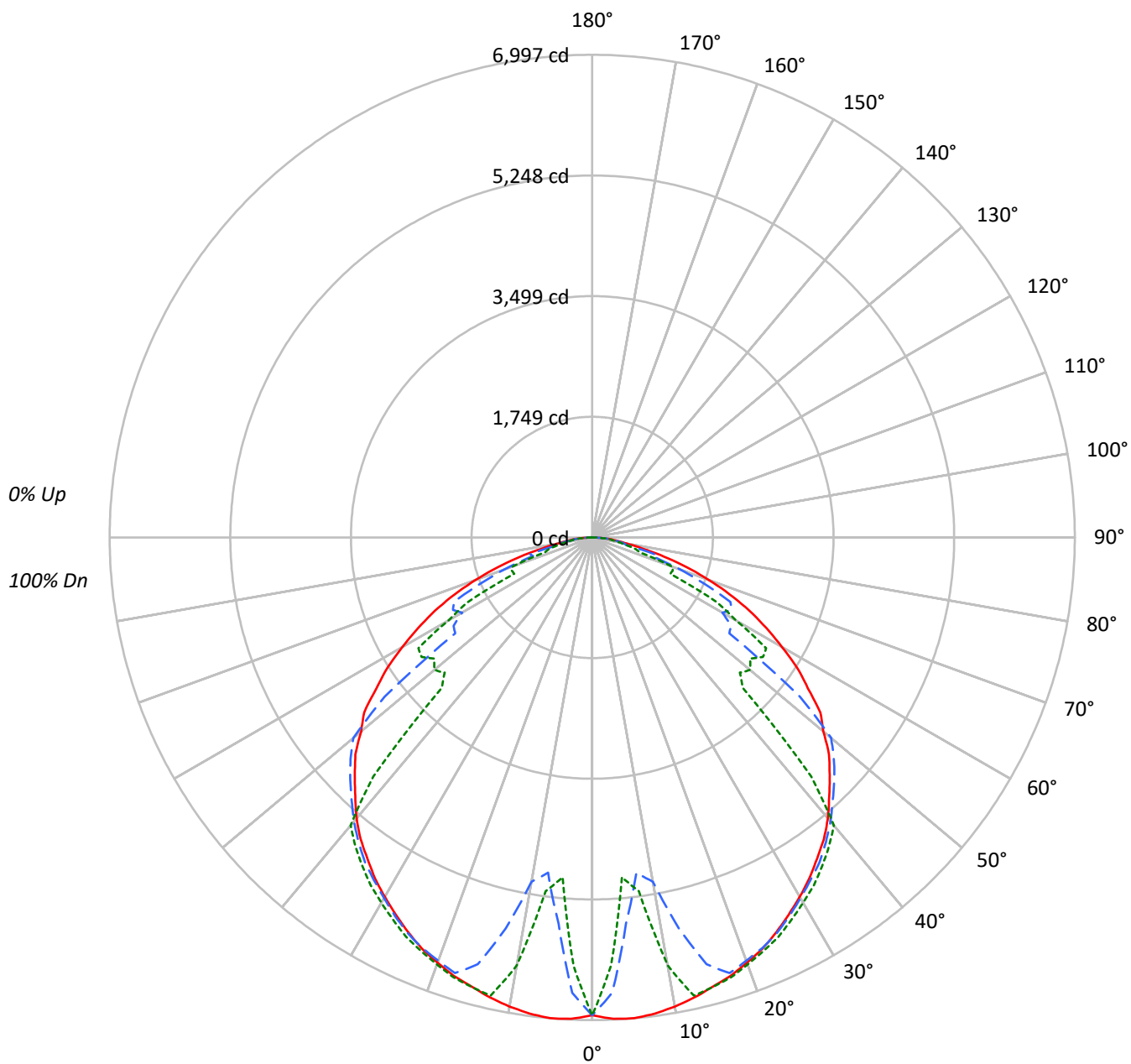
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11185	11185	11185
5°	11341	9111	8013
10°	11321	8309	10334
15°	11271	10709	11281
20°	11271	11220	11320
25°	11251	11276	11380
30°	11218	11256	11401
35°	11201	11325	11457
40°	11202	11324	11487
45°	11114	11332	7042
50°	10988	11355	7505
55°	10757	6827	8506
60°	10261	7038	7789
65°	9615	8450	4766
70°	8490	6402	5842
75°	6765	5819	4052
80°	4660	4206	3482
85°	4465	3881	3683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	3.0
10°-20°	1735.5	9.5
20°-30°	2855.3	15.6
30°-40°	3590.1	19.6
40°-50°	3521.0	19.2
50°-60°	2917.4	15.9
60°-70°	2057.7	11.2
70°-80°	897.8	4.9
80°-90°	224.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5144.8	28.0
0°-40°	8734.9	47.6
0°-60°	15173.3	82.7
0°-90°	18353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6928	6928	6928	6928	6928	
5°	6997	6513	5621	5097	4944	664
15°	6743	4683	6407	6770	6749	1907
25°	6316	5779	6330	6372	6388	2911
35°	5683	5679	5746	5784	5813	3560
45°	4868	4882	4963	4395	3084	3757
55°	3821	3946	2425	2758	3022	3419
65°	2517	2665	2212	1702	1248	2474
75°	1084	1063	933	610	650	1163
85°	241	215	210	200	199	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6927.7	6927.7	6927.7	6927.7	6927.7
2.5°	6984.8	6839.9	6609.6	6319.6	6216.9
5°	6997.3	6512.6	5621.3	5097.0	4943.7
7.5°	6961.7	5918.7	4900.7	5010.8	5173.2
10°	6905.3	5396.8	5068.0	5962.6	6303.1
12.5°	6833.2	4933.0	5806.0	6735.5	6803.4
15°	6742.9	4682.8	6406.6	6769.5	6748.7
17.5°	6666.7	4829.4	6622.0	6701.5	6686.6
20°	6559.8	5121.8	6530.1	6593.8	6588.0
22.5°	6452.2	5468.0	6443.0	6488.6	6488.6
25°	6315.5	5778.7	6329.5	6371.8	6387.6
27.5°	6165.5	5957.6	6187.9	6222.7	6250.8
30°	6017.2	5983.3	6037.2	6081.9	6115.0
32.5°	5860.7	5847.5	5889.7	5936.9	5979.1
35°	5682.6	5679.3	5745.5	5783.6	5812.7
37.5°	5515.3	5503.7	5565.0	5618.0	5640.4
40°	5314.8	5314.8	5372.8	5426.6	5449.9
42.5°	5086.2	5118.5	5163.2	5218.7	4700.2
45°	4867.5	4882.4	4962.7	4395.4	3084.0
47.5°	4657.1	4676.1	4752.4	2825.6	2902.6
50°	4374.6	4460.8	4520.4	2817.3	2988.0
52.5°	4168.4	4205.6	3794.7	2789.2	2885.2
55°	3821.3	3946.3	2425.4	2757.7	3021.9
57.5°	3524.7	3615.9	2384.9	2825.6	2989.6
60°	3177.6	3316.8	2179.4	2726.2	2412.2
62.5°	2844.6	2977.1	2275.5	2145.5	2042.7
65°	2516.6	2664.8	2211.8	1701.5	1247.5
67.5°	2157.0	2018.8	1764.4	1198.7	1261.6
70°	1798.4	1409.9	1356.1	1340.3	1237.6
72.5°	1429.8	1028.8	900.4	1005.7	719.8
75°	1084.4	1062.8	932.8	609.7	649.5
77.5°	752.1	767.1	499.5	594.7	493.7
80°	501.2	434.1	452.3	379.4	374.5
82.5°	347.1	354.5	297.4	288.2	292.4
85°	241.0	214.6	209.5	200.5	198.8
87.5°	80.3	93.6	87.0	78.7	83.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)